chain nodes :

Match level :

22:CLASS

```
18
                                       24
                                           25
                                               26
                                                                                            37
   15 16 17
                  19
                       20
                           21
                               22
                                   23
                                                    27
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                                                            29
                                                                30
                                                                    31
                                                                        32
                                                                            33
                                                                                34
                                                                                    35
                                                                                        36
                                                                                                38
   39
      46 47 48 49
                       50
                           51
                               52
                                   53
                                       54
                                            55
                                                56
                                                    57
                                                        58
                                                            68
                                                                75
                                                                    76
                                                                        77
                                                                            78
                                                                                79
                                                                                    80
                                                                                        81
                                                                                            88
                                                                                                89
   102 103 104 106
ring nodes :
                           9 10 11 12 13 14
   1 2 3 4 5 6 7 8
                                                  40
                                                      41
                                                           42
                                                               43 44
                                                                       45
                                                                           59
                                                                               60
                                                                                   61
                                                                                      62
                                                                                           63
                                                                                               64
   65 66 67 69 70 71
                           72 73 74 82 83 84
                                                   85 86
                                                           87
chain bonds :
   4-22 6-106
                7-11
                     8-24 11-15 12-16 12-20 13-17 13-21
                                                               14-18 14-19 19-23 25-26 26-27
   27-28 28-29 30-31 31-32 33-34 34-35 34-36 34-37 34-38
                                                                   39-40 46-47
                                                                                 47-48
                                                                                       48-49
                                                   75-76
   50-51 51-52 52-53 54-55 56-57
                                                           76-77 77-78
                                      58-59 68-69
                                                                          78-79
                                                                                       80-81
                                                                                 79-80
   84-88 86-89
                102-103 102-104
ring bonds :
   1-2 1-6 2-3 2-7 3-4 3-9 4-5
                                      5-6 7-8 8-9
                                                     10-11 10-14 11-12 12-13 13-14 40-41
   40-45 41-42 42-43 43-44 44-45
                                      59-60 59-64 60-61
                                                           61-62 62-63 62-65
                                                                                63-64
                                                                                       63-67
   65-66 66-67 69-70 69-74
                               70-71
                                      71-72 72-73
                                                    73-74
                                                           82-83 82-87 83-84
                                                                                 84-85
   86-87
exact/norm bonds :
   2-7 3-9 4-22 6-106 7-8
                               7-11 8-9 10-11 10-14 11-12 12-13 12-20 13-14 13-21 25-26
   39-40 46-47 48-49 50-51
                               54-55 58-59 62-65 63-67 65-66 66-67 68-69 102-103 102-104
exact bonds :
   8-24 11-15 12-16 13-17 14-18 14-19 19-23 26-27 27-28 28-29 30-31
                                                                                31-32 33-34 34-35
   34-36 34-37 34-38 47-48 51-52 52-53 56-57 75-76 76-77 77-78 78-79 79-80
   84-88 86-89
normalized bonds :
   1-2 \quad 1-6 \quad 2-3 \quad 3-4 \quad 4-5 \quad 5-6 \quad 40-41 \quad 40-45 \quad 41-42 \quad 42-43 \quad 43-44 \quad 44-45 \quad 59-60 \quad 59-64 \quad 60-61
   61-62 \quad 62-63 \quad 63-64 \quad 69-70 \quad 69-74 \quad 70-71 \quad 71-72 \quad 72-73 \quad 73-74 \quad 82-83 \quad 82-87 \quad 83-84 \quad 84-85
   85-86 86-87
```

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom

12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS

G1:CN,[*1],[*2],[*3],[*4],[*5],[*6],[*7],[*8],[*9],[*10],[*11],[*12],[*13]

23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:Atom 33:CLASS 34:Atom 35:CLASS 36:CLASS 37:CLASS 38:CLASS 39:CLASS 40:Atom 41:Atom 42:Atom 43:Atom 44:Atom 45:Atom 46:CLASS 47:CLASS 48:CLASS 49:CLASS 50:CLASS 51:CLASS 52:CLASS 53:CLASS 54:CLASS 55:CLASS 56:Atom 57:CLASS 58:CLASS 59:Atom 60:Atom 61:Atom 62:Atom 63:Atom 64:Atom 65:Atom 66:Atom 67:Atom 68:CLASS 69:Atom 70:Atom 71:Atom 72:Atom 73:Atom 74:Atom 75:CLASS 76:CLASS 77:CLASS 78:CLASS 79:CLASS 80:CLASS 81:CLASS 82:Atom 83:Atom 84:Atom 85:Atom 86:Atom 87:Atom 88:CLASS 89:CLASS 102:CLASS 103:CLASS 104:CLASS 106:CLASS